

Please type a plus sign (+) inside this box →



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

| | |
|------------------------|---------------------------|
| Application Number | 10/736,061 |
| Filing Date | DECEMBER 15, 2003 |
| First Named Inventor | CHRISTOPHER OLSEN, ET AL. |
| Group Art Unit | UNKNOWN |
| Examiner Name | UNKNOWN |
| Attorney Docket Number | AMAT/8629/FEP/GCM/RKK |
| Submission Date | 3/10, 2004 |

Sheet 1 of 2

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| CS | A1 | US-6,610,614 B2 | 08/26/2003 | Niimi, et al. | |
| | A2 | US-6,605,511 B2 | 08/12/2003 | Pham, et al. | |
| | A3 | US-6,599,807 B2 | 07/29/2003 | Lim, et al. | |
| | A4 | US-6,548,368 B2 | 04/15/2003 | Narwankar, et al. | |
| | A5 | US-6,548,366 B2 | 04/15/2003 | Niimi, et al. | |
| | A6 | US-6,509,604 B1 | 01/21/2003 | Pham, et al. | |
| | A7 | US-6,268,267 B1 | 07/31/2001 | Lim | |
| | A8 | US-5,939,131 | 08/17/1999 | Kim, et al. | |
| | A9 | US-5,780,115 | 07/14/1998 | Park, et al. | |
| | A10 | US-5,591,494 | 01/07/1997 | Sato, et al. | |
| | A11 | US-2003/0111678 A1 | 06/19/2003 | Luigi, et al. | |
| | A12 | US-2003/0109146 A1 | 06/12/2003 | Colombo, et al. | |
| | A13 | US-2002/0197884 A1 | 12/26/2002 | Niimi, et al. | |
| | A14 | US-2002/0197883 A1 | 12/26/2002 | Niimi, et al. | |
| | A15 | US-2002/0197882 A1 | 12/26/2002 | Niimi, et al. | |
| CS | A16 | US-2002/0197880 A1 | 12/26/2002 | Niimi, et al. | |
| | A17 | US- | | | |
| | A18 | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ³ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ⁴ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | B1 | | | | | |
| | B2 | | | | | |
| | B3 | | | | | |
| | B4 | | | | | |
| | B5 | | | | | |

Examiner

Christopher Olsen

Date Considered

7/18/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO

Please type a plus sign (+) inside this box → +

PTO/SB/08b (08-03)

Approved for use through 06/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|---|------|------------------------|---------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | Application Number | 10/736,061 |
| | | Filing Date | DECEMBER 15, 2003 |
| | | First Named Inventor | CHRISTOPHER OLSEN, ET AL. |
| | | Group Art Unit | UNKNOWN |
| | | Examiner Name | UNKNOWN |
| | | Attorney Docket Number | AMAT/8629/FEP/GCM/RKK |
| Sheet 2 | of 2 | Submission Date | 3/10, 2004 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
| CS | C1 | D. ISHIKAWA, et al. "Nitride-Sandwiched-Oxide Gate Insulator For Low Power CMOS", IEDM, 0-7803-7463-X.02, 2002, p. 869-872, IEEE. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|-----------------------------------|-------------------------|
| Examiner <i>Christopher Olsen</i> | Date Considered 1/18/04 |
|-----------------------------------|-------------------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

| | |
|------------------------|-----------------------|
| Application Number | 10/736,061 |
| Filing Date | JULY 29, 2005 |
| First Named Inventor | OLSEN, ET AL. |
| Art Unit | 2812 |
| Examiner Name | UNKNOWN |
| Attorney Docket Number | AMAT/8629/FEP/GCM/RKK |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|------------------------|--------------------------|---|----------------|
| is | C1 | PCT International Search Report and Written Opinion for PCT/US2004/037346, dated June 29, 2005 (AMAT/8629.PC) | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|-----------------------|---|--------------------|--|
| Examiner Signature |  | Date Considered | |
|-----------------------|---|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.